

1. Add a new column called DOB in Persons table with data type as Date.

ALTER TABLE Persons
ADD DOB DATE;




Result Grid							
		Filter Rows:		Edit:		Export/Imp	
	Id	Fname	Lname	Population	Rating	Country_Id	DOB
▶	1	John	Doe	500000	4.5	1	1985-03-15
	2	Jane	Smith	600000	4.0	2	1978-07-22
	3	Ahmed	Khan	200000	3.9	8	1995-11-10
	4	Maria	Garcia	450000	4.6	4	1990-02-28
	5	Chen	Wei	700000	3.8	5	1982-12-04
	6	Anna	Ivanova	300000	4.2	6	1975-09-13
	7	Lucas	Silva	750000	4.3	1	1993-05-19
	8	Fatima	Ali	550000	3.7	8	1988-08-30
	9	Olga	Petrova	800000	4.4	9	1979-04-12
	10	Carlos	Martinez	100000	4.1	2	1980-10-25
	11	Ali	NULL	150000	4.2	2	1996-06-06
	12	Sara	NULL	200000	3.5	4	1984-01-18
★	NULL	NULL	NULL	NULL	NULL	NULL	NULL

2. Write a user-defined function to calculate age using DOB.

```
DELIMITER $$
CREATE FUNCTION CalculateAge(DOB date)
RETURNS INT
DETERMINISTIC
> BEGIN
    DECLARE Age INT;
    SET Age = TIMESTAMPDIFF(YEAR, DOB, CURDATE());
    RETURN Age;
- END $$
DELIMITER ;
```




3. Write a select query to fetch the Age of all persons using the function that has been created.

```
73 • SELECT Id,Fname,Lname,DOB, CalculateAge(DOB) AS Age FROM Persons1;
```

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Result Grid  Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 					
	Id	Fname	Lname	DOB	Age
▶	1	John	Doe	1985-03-15	39
	2	Jane	Smith	1978-07-22	46
	3	Ahmed	Khan	1995-11-10	29
	4	Maria	Garcia	1990-02-28	34
	5	Chen	Wei	1982-12-04	41
	6	Anna	Ivanova	1975-09-13	49
	7	Lucas	Silva	1993-05-19	31
	8	Fatima	Ali	1988-08-30	36
	9	Olga	Petrova	1979-04-12	45
	10	Carlos	Martinez	1980-10-25	44
	11	Ali	NULL	1996-06-06	28
	12	Sara	NULL	1984-01-18	40

4. Find the length of each country name in the Country table.

```
75 • SELECT Country_name, length(Country_name) AS LengthOfCountryName FROM Country1;
```

<		
Result Grid  Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 		
	Country_name	LengthOfCountryName
▶	India	5
	China	5
	USA	3
	Indonesia	9
	Pakistan	8
	Brazil	6
	Nigeria	7
	Bangladesh	10
	Russia	6
	Mexico	6

5. Extract the first three characters of each country's name in the Country table.

```
77 • SELECT Country_name, substring(Country_name,1,3) as First_three_characters FROM Country1;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
Country_name	First_three_characters			
India	Ind			
China	Chi			
USA	USA			
Indonesia	Ind			
Pakistan	Pak			
Brazil	Bra			
Nigeria	Nig			
Bangladesh	Ban			
Russia	Rus			
Mexico	Mex			

6. Convert all country names to uppercase and lowercase in the Country table.

```
79 • SELECT Country_name, UPPER(Country_name) AS CountryName_Uppercase, LOWER(Country_name) AS CountryName_Lowercase FROM Country;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
Country_name	CountryName_Uppercase	CountryName_Lowercase		
USA	USA	usa		
Canada	CANADA	canada		
UK	UK	uk		
India	INDIA	india		
Australia	AUSTRALIA	australia		
Brazil	BRAZIL	brazil		
China	CHINA	china		
Germany	GERMANY	germany		
France	FRANCE	france		
Japan	JAPAN	japan		